

Electronic Acknowledgement Receipt

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Application Number:	10523167
International Application Number:	
Confirmation Number:	8220
Title of Invention:	Method and apparatus to establish constellations for imperfect channel state information at a receiver
First Named Inventor/Applicant Name:	Mohammad Jaber Borran
Customer Number:	23524
Filer:	Callie M. Bell/Linda Anderson
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Application Type:	U.S. National Stage under 35 USC 371

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Submitted with Payment	yes
Payment Type	Credit Card
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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
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1	Foreign Reference	EP1324558.pdf	472233 9d8c2ed3d17ee17912caac2d62ae1a752d996c	no	35
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2	Foreign Reference	RU2145152.pdf	354346 6863a6d161c726e41118b752aeb2c2d316131e3	no	14
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3	Foreign Reference	KR20020076049.pdf	1879838 0887d81ca3c379d4f9b4dcd124bf9db13ba622a411	no	35
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4	NPL Documents	Borranarticle.pdf	93301 24e07a985120d871527d6c1360557d4d0fbad1f1	no	7
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5	NPL Documents	BorranPowerpoint.pdf	242272 2b4da0546e9d5b4230ae3be43d693f728fc37a1	no	18
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6		ChanandCoverref.pdf	432970 817ddbaeedc077506b3661e5d5b081a8bc9cab3	yes	6
	Multipart Description/PDF files in .zip description				
	Document Description		Start	End	
	NPL Documents		1	5	
	NPL Documents		6	6	
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7	NPL Documents	Russianpatentgrant.pdf	92872 079ca7a9428d18102e49bc4d2362c73d7586679	no	6
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8	NPL Documents	PER3-21-04.pdf	91692 7bc5816ec703d5580b0760f7abc3132fdd8c21	no	3

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9	NPL Documents	ISR10-23-03.pdf	36748 6dbbda6f0f8e0a838ac25d405751f9a0cb7d46c3a3	no	1
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10	NPL Documents	ISRPCT01566.pdf	295920 761a680117279b3d46c1be0f8b5dc26726cdd87e	no	11
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11	NPL Documents	Riceref.pdf	56281 dc3c118056c0423a3c9028d3014fa7602ec1d	no	1
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12	NPL Documents	EPComm5_19_09.pdf	56437 b3ab0019938c378ba3c563d35db1d083b78ba	no	5
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13	NPL Documents	SESR6-9-05.pdf	41776 bd27ad9c4f8b13dd7548bdf8c3ba185ced234	no	2
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14	NPL Documents	Tarokh.pdf	944346 016dc06471150c168d779e1d15aac8bc388e67	no	24
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15	NPL Documents	SERS2_5_09.pdf	30096 34b79e2e027225619d7ee4d97956e9b91034db2	no	2
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16	NPL Documents	Aazhang.pdf	484793 1ec6c9f52ed81fb338f5cc3b3d8e7f6b5c74a08	no	20
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17	NPL Documents	ISR12-14-05.pdf	93617 80c5f8d6f48661a54bb61974ec093c8519bb144	no	5

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18	NPL Documents	IPR1-3-06.pdf	19796 29361b4e520e7c26ede28a0a97eb678e4b3a05	no	1
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19	NPL Documents	ChineseOA.pdf	268424 ed8da4db413a8ac1493044dc46c266fa27e8b7	no	13
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20	Foreign Reference	RU2192094.pdf	351368 851dx094e4016676db118f5babc6714e33c39c	no	15
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21		SupplDS.pdf	167162 8ac37d727984b6c0f530dc11bb48e14d759db	yes	6
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	Transmittal Letter		1	3	
	Information Disclosure Statement (IDS) Filed (58/08)		4	6	
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22	NPL Documents	KROfficeAction.pdf	321175 65478da2accb5f8b4d9dbf1a7ed2fcd6dc55bc	no	9
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23	Fee Worksheet (PTO-875)	fee-info.pdf	30135 d77dcasa11b25ff0ce18a0a36e4a5923959218	no	2
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New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.